



IN THE CLAIMS:

Please amend claims 1-9 and 11-28 as follows.

1. (Currently Amended) A network device for managing a communication over a network, comprising:

a transceiver arranged configured to send and to receive the communication over the network;

a processor, coupled to the transceiver, that is configured to ~~perform~~ actions, including:

~~receiving~~ receive a proxy request from a client through a secure tunnel;

~~modifying~~ modify the proxy request to include a security attribute inherent from the secure tunnel; and

~~forwarding~~ forward the modified proxy request to a proxy service, wherein the security attribute enables a proxy connection through the secure tunnel.

2. (Currently Amended) The network device of Claim 1, wherein modifying the proxy request further comprises including a security header with the proxy request.

3. (Currently Amended) The network device of Claim 1, wherein the security attribute further comprises at least one of an internet protocol (IP) address associated with the client, a security property associated with the secure tunnel, a public key certificate, a security credential associated with the client, access control data configured to enable the client access to a content server, a session identifier, and an identifier associated with the secure tunnel.

4. (Currently Amended) The network device of Claim 1, wherein the proxy request is an hyper text transport protocol (HTTP) proxy request.

5. (Currently Amended) The network device of Claim 1, wherein the secure tunnel further comprises at least one of an a secure sockets layer (SSL) tunnel, a transport layer security (TLS) tunnel, hyper text transport protocol (HTTP) Secure (HTTPS), Tunneling TLS (TTLS), and an extensible authentication protocol (EAP) secure tunnel.

6. (Currently Amended) The network device of Claim 1, further comprising receiving an hyper text transport protocol secure (HTTPS) communication to enable the secure tunnel.

7. (Currently Amended) An apparatus for managing a communication over a network, comprising:
a transceiver arranged configured to send and to receive the communication over the network;

a processor, coupled to the transceiver, that is configured to perform actions, including:

establishing establish a secure tunnel between the apparatus and a client;

receiving receive a proxy request from the client through the secure tunnel;

modifying modify the proxy request to include a security attribute inherent from the secure tunnel; and

forwarding forward the modified proxy request to a proxy service, wherein the security attribute enables a proxy connection through the secure tunnel.

8. (Currently Amended) The apparatus of Claim 7, wherein establishing the secure tunnel further comprises receiving an hyper text transport secure (HTTPS) communication.

9. (Currently Amended) The apparatus of Claim 7, wherein the apparatus is operable as at least one of a firewall, a gateway, and a proxy server.

10. (Original) A method for managing a communication over a network, comprising:

receiving a proxy request from a client through a secure tunnel;
modifying the proxy request to include a security attribute; and
forwarding the modified proxy request to a proxy service, wherein the security attribute enables a proxy connection through the secure tunnel.

11. (Currently Amended) The method of Claim 10, wherein modifying the proxy request further comprises associating a security header with the proxy request.

12. (Currently Amended) The method of Claim 10, wherein the security attribute further comprises at least one of an IP address associated with the client, a security property associated with the secure tunnel, a public key certificate, access control data configured to enable the client access to a content server, a security credential associated with the client, a session identifier, and an identifier.

13. (Original) The method of Claim 10, wherein the proxy request is an hyper text transport protocol (HTTP) proxy request.

14. (Currently Amended) The method of Claim 10, wherein the secure

tunnel further comprises at least one of an secure socket layer (SSL) tunnel, a transport layer security (TLS) tunnel, hyper text transport protocol (HTTP) Secure (HTTPS), Tunneling TLS (TTLS), IPSec tunnel, and an extensible authentication protocol (EAP) secure tunnel.

15. (Currently Amended) The method of Claim 10, further comprising receiving an hyper text transport protocol secure (HTTPS) communication to enable the establishment of the secure tunnel.

16. (Currently Amended) The method of Claim 10, further comprising:
initiating a connection to a secure tunnel client; and
sending the proxy request to the secure tunnel client, wherein the secure tunnel client is configured to forward the proxy request over the secure tunnel.

17. (Currently Amended) The method of Claim 10, wherein modifying the proxy request further comprises modifying the proxy request employing an access control service.

18. (Currently Amended) A system for managing a communication over a network, comprising:
a client that is configured to perform actions, including:
determining determine a secure tunnel; and
sending send a proxy request through the determined secure tunnel;
and
a server, coupled to the client, that is configured to perform actions, including:
receiving receive the proxy request from the client through the secure tunnel;

~~modifying~~ modify the proxy request to include a security attribute inherent from the secure tunnel; and
~~forwarding~~ forward the modified proxy request to a proxy service, wherein the security attribute enables a proxy connection through the secure tunnel.

19. (Currently Amended) The system of Claim 18, wherein the client further comprises:

a proxy client that is configured to generate a proxy request; and
a secure tunnel client, coupled to the proxy client, that is configured to establish the secure tunnel with the server.

20. (Currently Amended) The system of Claim 19, wherein the proxy client further comprises a port-forwarding client application.

21. (Currently Amended) The system of Claim 18, wherein modifying the proxy request further comprises including a security header with the proxy request.

22. (Currently Amended) The system of Claim 18, wherein the security attribute further comprises at least one of an internet protocol (IP) address associated with the client, a security property associated with the secure tunnel, a public key certificate, access control data configured to enable the client access to a content server, a security credential associated with the client, a session identifier, and an identifier associated with the secure tunnel.

23. (Currently Amended) The system of Claim 18, wherein the proxy request is ~~an~~ a hyper text transport protocol (HTTP) proxy request.

24. (Currently Amended) The system of Claim 18, wherein the secure tunnel further comprises a means for securing the communication over the network.

25. (Currently Amended) The system of Claim 18, wherein the secure tunnel further comprises at least one of an a secure socket layer (SSL) tunnel, a transport layer security (TLS) tunnel, hyper text transport protocol (HTTP) Secure (HTTPS), Tunneling TLS (TTLS), IPSec tunnel, and an extensible authentication protocol (EAP) secure tunnel.

26. (Currently Amended) The system of Claim 18, wherein determining the secure tunnel further comprises generating an hyper text transport protocol secure (HTTPS) message to enable the secure tunnel.

27. (Currently Amended) An apparatus for managing a communication over a network, comprising:

 a transceiver arranged to send and to receive the communication over the network;

 a processor, coupled to the transceiver, that is configured to receive a proxy request from a client through a secure tunnel;

 a means for modifying the proxy request to include a security attribute inherent from the secure tunnel; and

 a means for forwarding the modified proxy request to a proxy service, wherein the security attribute enables a proxy connection through the secure tunnel.

28. (Currently Amended) The apparatus of Claim 27, wherein the secure tunnel further comprises a means for securing the communication over the network.